TRANSMITTAL LETTER			Docket No.	
FEB (General - Patent Pending)			9872	
4 3				
In Re replication of: Ted Christopher				
PADEMIN				
Serial No.	Filing Date	Examiner	Group Art Unit	
08/746,360	November 8, 1996			
Title: FINITE AMPLITUDE DISTORTION-BASED INHOMOGENEOUS PULSE ECHO ULTRASONIC IMAGING				
TO THE ACCIOTANT COMMISSIONED FOR DATENTS:				
TO THE ASSISTANT COMMISSIONER FOR PATENTS:				
Transmitted herewith is:				
Information Disclosure Statement				
Form PTO-1449				
in the above identified application.				
☑ No additional fee is required.				
☐ A check in the am			Account No. 19-1013	
☑ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013 as described below. A duplicate copy of this sheet is enclosed.				
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	ny additional fee required.			
Dated: January 31, 1997				
Signature Dated: January 31, 1997				
John S. Sensny	gnum.c V			
Reg. No. 28,757				
Scully, Scott, Murphy & I	Dracçar		document and fee is being deposited	
400 Garden City Plaza	165561	on Jan. 31, 1997 first class mail und	with the U.S. Postal Service as der 37 C.F.R. 1.8 and is addressed to the	
Garden City, New York	Garden City, New York 11530 Assistant Commissioner for Patents, Washington, D.			
(516) 742-4343		20231.	, ,	
		John	& sensory	
		Signature	of Person Mailing Correspondence	
		/	John S. Sensny	
CC:		Typed or Printed	Name of Person Mailing Correspondence	

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3305 PATENTS

UNITED STATES PATENT AND TRADEMARK OFFICE

pp (: Christopher

Examiner:

I. Q.S.

Serial No.: 08/746,360

Art Unit:

4 4 1/2

Filed: November 8, 1996

Docket: 9872

For: Finite Amplitude Distortion-

Based Inhomogeneous Pulse Echo Ultrasonic Imaging Dated: January 31, 1997

Assistant Commissioner for Patents

Washington, DC 20231

INFORMATION DISCLOSURE STATEME

Sir:

Applicant submits herewith, as attachments to form PTO-1449, copies of information which is considered to be pertinent to the invention as claimed in the above-identified application. In particular, Applicant is submitting herewith copies of the followind documents:

- 1. "Second Harmonic Imaging and Harmonic Doppler Measurements With Albunex," Chang, et. al., 1994 Ultrasonics Symposium, pp. 1551-1554.
- 2. "In Vivo and In Vitro Ultrasound Beam Distortion Measurements of a Large Aperture and a Conventional Aperture Focussed Transducer," Moshfeghi, et. al., <u>Ultrasound in Med & Biol.</u>, Vol.14, No.5,pp. 415-428, 1988.
- 3. "Physical Acoustics: Ultrasonic Techniques," Makin, <u>J. Acoust. Soc. Am.</u> Vol. 97, No. 5, Pt. 2, May 1995.
- 4. "Generation of harmonics in a focused Gaussian sound field," Du, et. al., <u>J. Acoust. Soc. Am.</u> 97 (3), pp 1486-1488, March 1995.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on January 31, 1997.

Dated: January 31, 1997

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- 5. "Nonlinear Propagation in Doppler Ultrasound," McDicken, et. al., <u>Ultrasound in Med & Biol.</u>, Vol.19, No. 5, pp 359-364, 1993.
- 6. "Multi-frequency transducer assembly for nonlinear ultrasonic measurements," Wu. et. al., <u>J. Accoust. Soc. Am.</u> 93 (4), Pt. 1, pp. 2231-2234, April 1993.
- 7. "Errors in attenuation measurements due to nonlinear propagation effects," Zeqiri, <u>J. Acoust. Soc. Am.</u> 91 (5), pp. 2585-2593, May 1992.
- 8. "Harmonic generation in finite amplitude sound beams from a rectangular aperture source," Kamakura, et. al., J. Acoust. Soc. Am. 91 (6), pp. 3144-3151, June 1992.
- \checkmark 9. "The Enhancement of Second Harmonic Generation In Ultrasonic Microscopic Observation By Triple Transition," Din, et al., 1993 Ultrasonics Symposium, pp. 575-578.
- 10. "Non-Linearity and finite amplitude effects," European Journal of Ultrasound, 1 pp. 213-215, 1994.
- 11. "Time-shift compensation of ultrasonic pulse focus degradation using least-mean-square error estimates of arrival time," Liu, et al., The Journal of the Acoustical Society of America, Vol. 95, No. 1, pp. 542-555, January 1994.
- 12. "Adaptive focusing in scattering media through sound-speed inhomogeneities: The van Cittert Zernike approach and focusing criterion," Mallart, et. al., <u>J. Acoust. Soc. Am.</u> 96 (6), pp. 3721-3732, December 1994.
- 13. "Wavefront amplitude distribution in the female breast," Zhu, et. al., <u>J. Acoust. Soc. Am.</u> 96 (1), pp. 1-9, July 1994.
- 14. "An experimental investigation of the nonlinear pressure field produced by a plane circular piston," TenCate, J. Acoust. Soc. Am. 94 (2), Pt. 1, pp. 1084-1089, August 1993.
- 45. "New approaches to nonlinear diffractive field propagation," Christopher, et. al., <u>J. Acoust. Soc. Am.</u> 90 (1), pp. 488-499, July 1991.
- 16. "Imaging the Acoustic Nonlinearity Parameter with Finite-Amplitude Sound Waves: The Difference-Frequency Method and the Second-Harmonic Method," Nakagawa, et. al., <u>IEICE Transactions</u>, Vol. E 71, No. 8, pp. 799-809 August 1988.

Respectfully submitted,

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JSS/